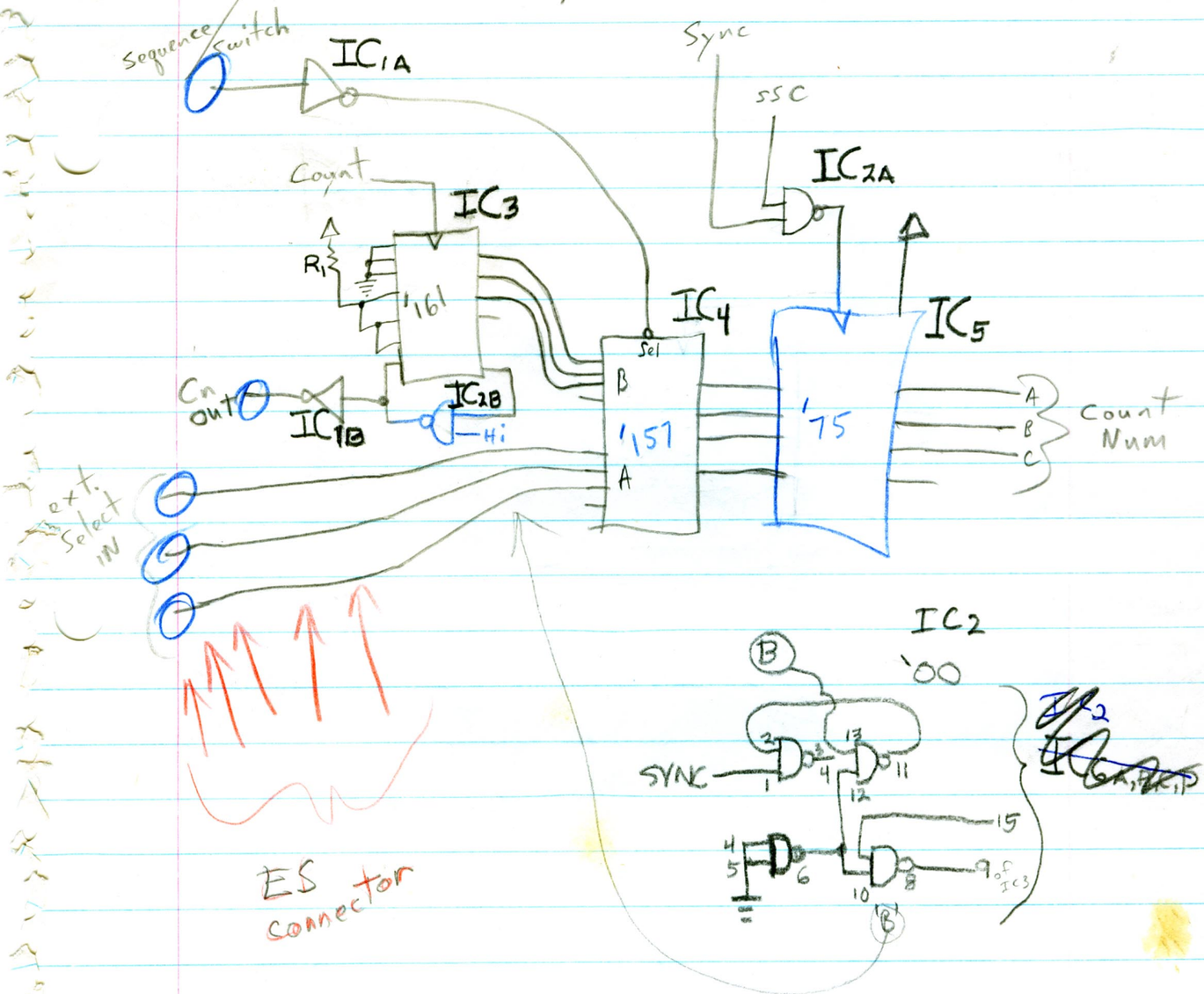
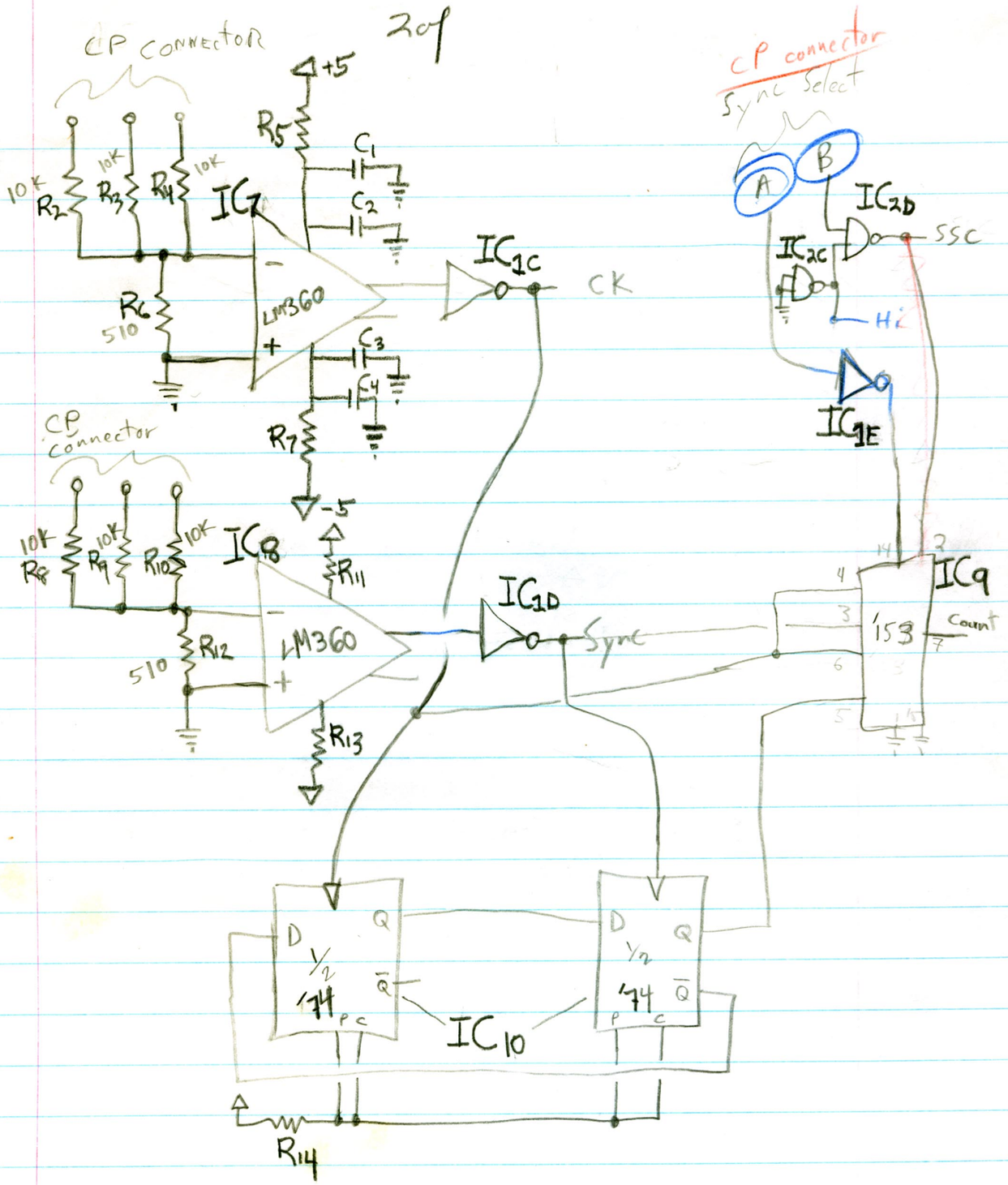
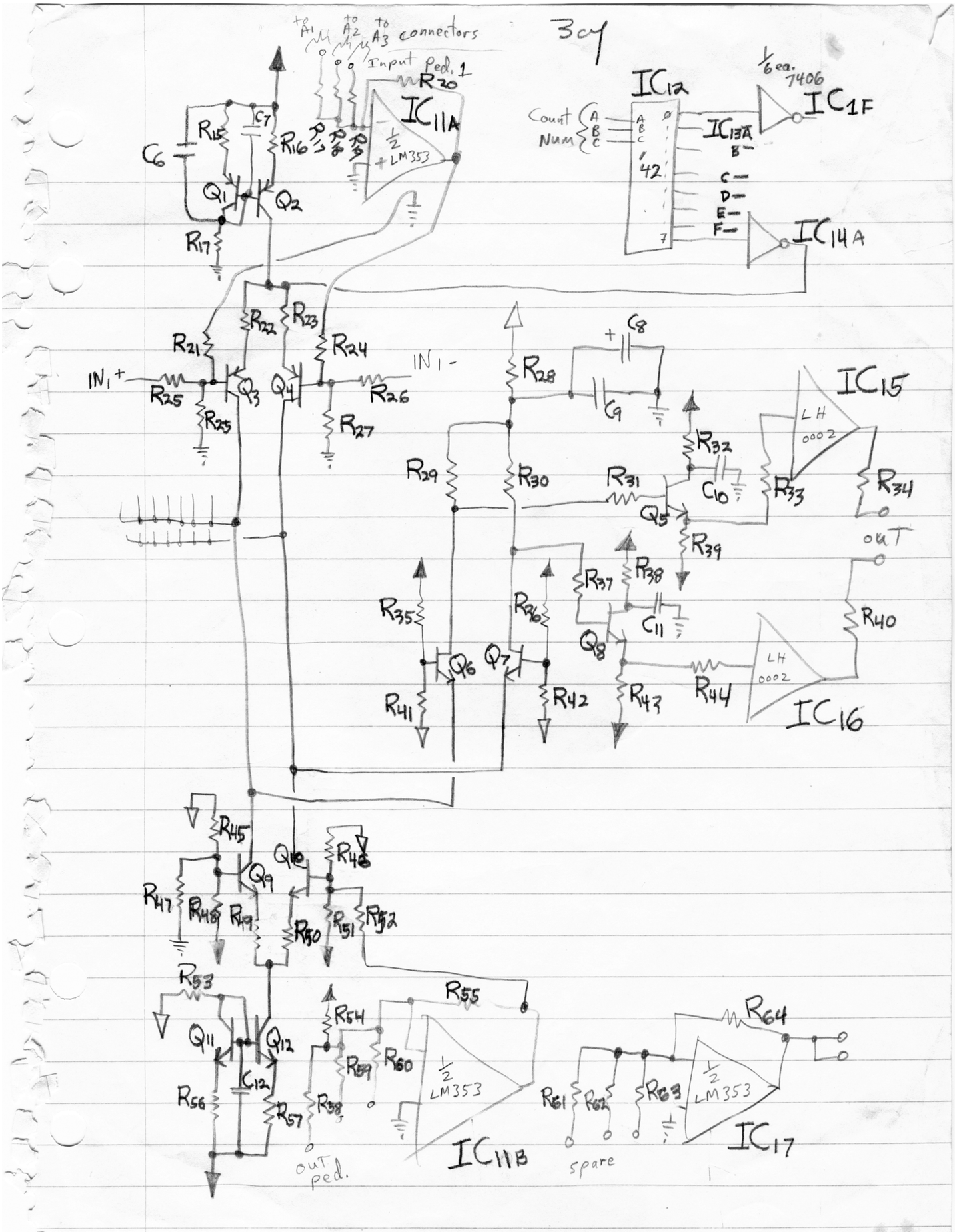
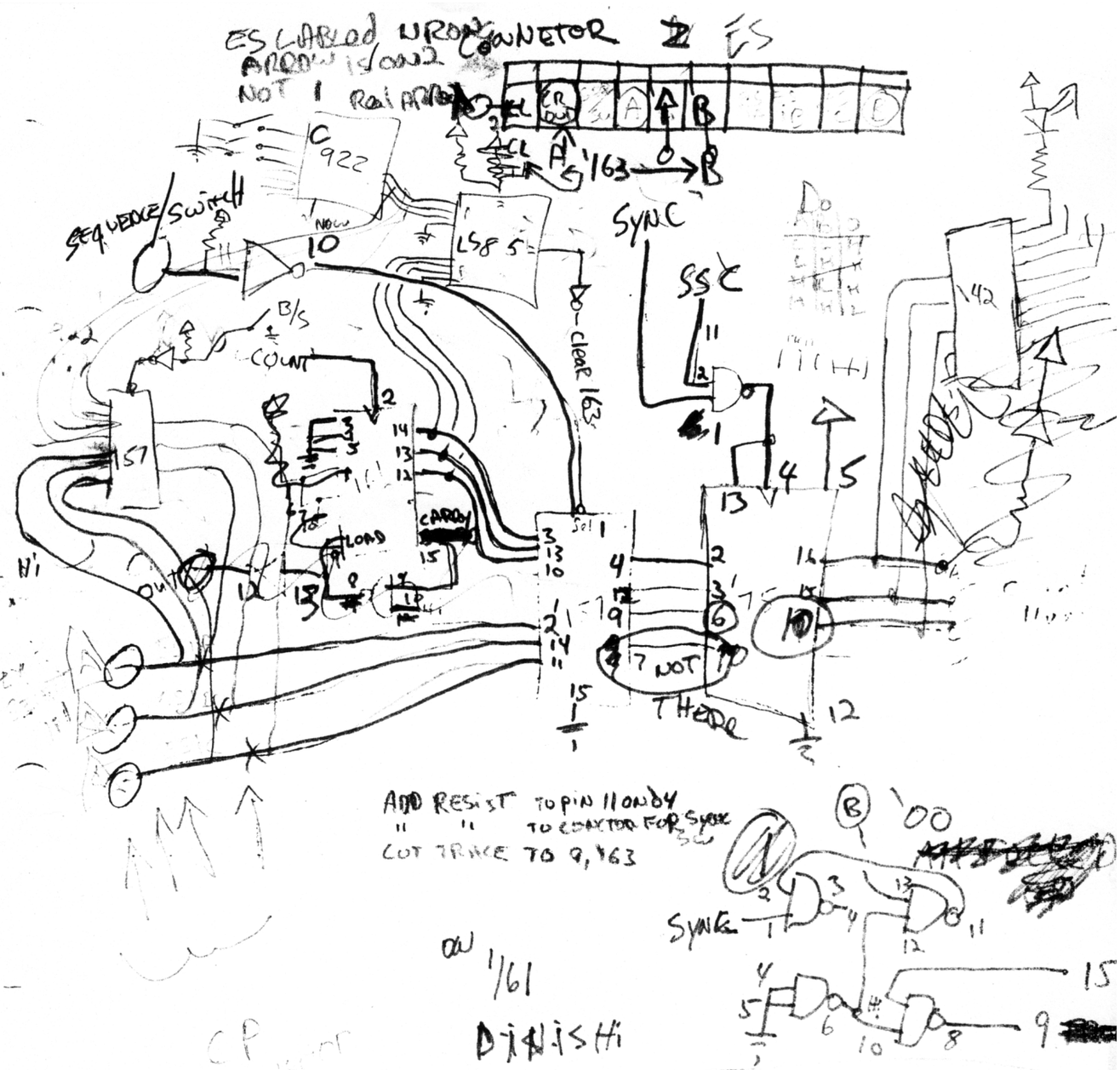
13841 110.4 658

SEQUENCER 1of




CP CONNECTOR
+5
R5
C1
C2
10K
R2
10K
R3
10K
R4
IC7
LM360
R6
510
C3
C4
R7
-5
IC1C
CK
CP connector
Sync Select
A
B
IC2D
IC2C
SSC
Hi
IC1E
CP connector
10K
R8
10K
R9
10K
R10
IC8
R11
LM360
R12
510
R13
IC1D
Sync
IC9
153
Count
D
Q
1/2
74
PC
IC10
R14


3 of 4
to A1 connectors
to A2 connectors
to A3 connectors
Input Ped. 1
R20
IC11A
½ LM353
C6
C7
R15
R16
Q1
Q2
R17
IC12
Count
Num
A
B
C
42
IC13A
1/6 ea. 7406
IC1F
IC14A
R21
R22
R23
R24
IN1+
IN1-
R25
R26
R27
Q3
Q4
R28
C8
C9
IC15
LH 0002
R29
R30
R31
R32
C10
R33
R34
Q5
R39
out
R35
R36
R37
R38
C11
R40
Q6
Q7
Q8
R41
R42
R43
R44
IC16
R45
R46
Q9
Q10
R47
R48
R49
R50
R51
R52
R53
R54
R55
Q11
Q12
C12
R56
R57
R58
R59
R60
½ LM353
IC11B
out ped.
R61
R62
R63
R64
½ LM353
IC17
spare



ADD RESIST TO PIN 11 ON 04
" " TO COUNTER FOR SYNC
CUT TRACE TO 9, 163

ON 1/61

DINISHI

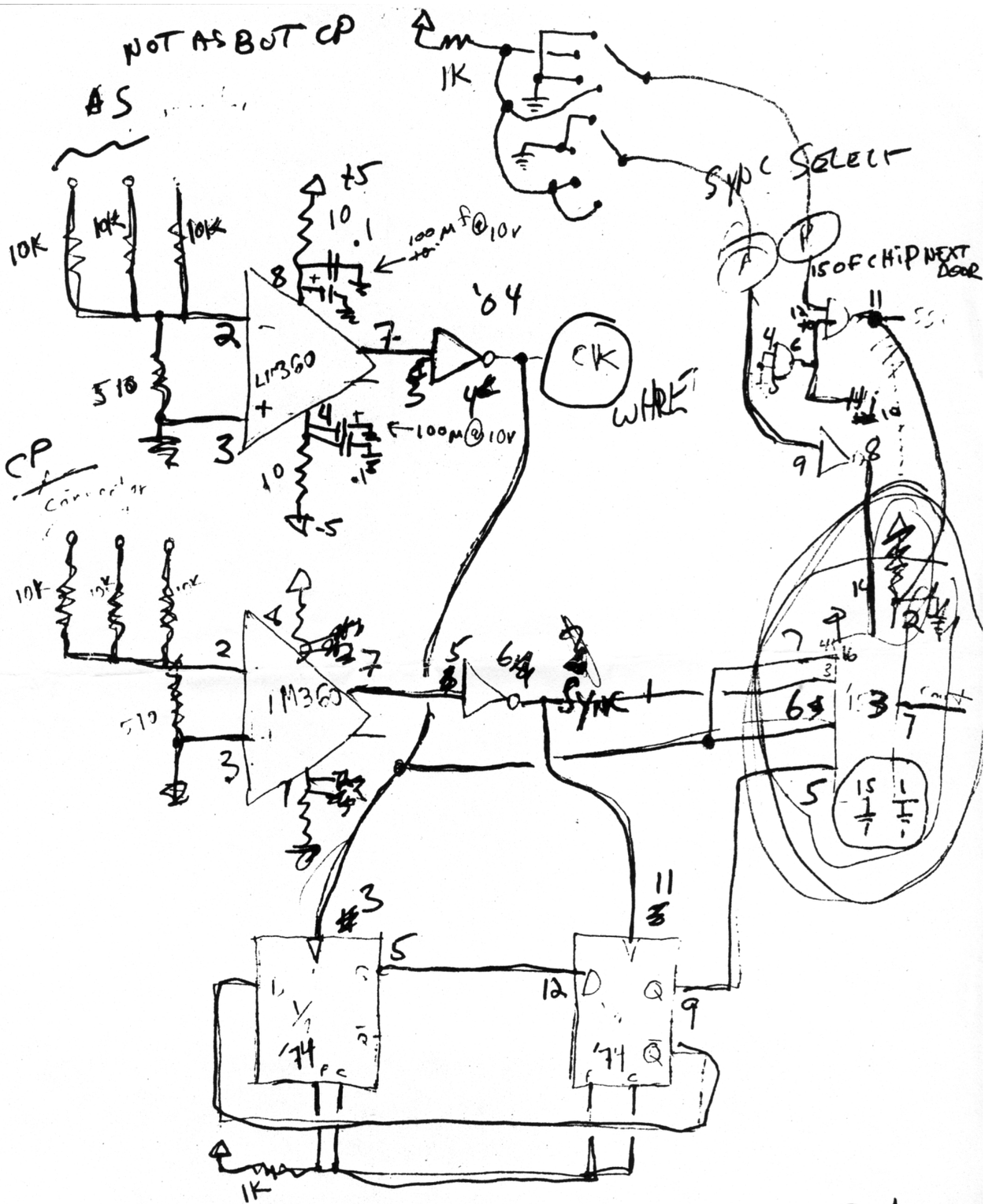
A-C-IN-LOW

FATCHHOCC

CP

NOT CP CONNECTED

2. 9 OF '157 -> 6 OF '75 SHOULD BE 7
3. NO 4th BIT BETWEEN '152 & '75 AS IN SCH
4. BIT 6 COMES FROM INPUT OF '75 NOT OUT POSSIBLE SOLUTION TO REFERS 6 & 10
5. 157 & '75 NOT CONNECTED TO POWER



1 CP NOT A5 FOR 360's

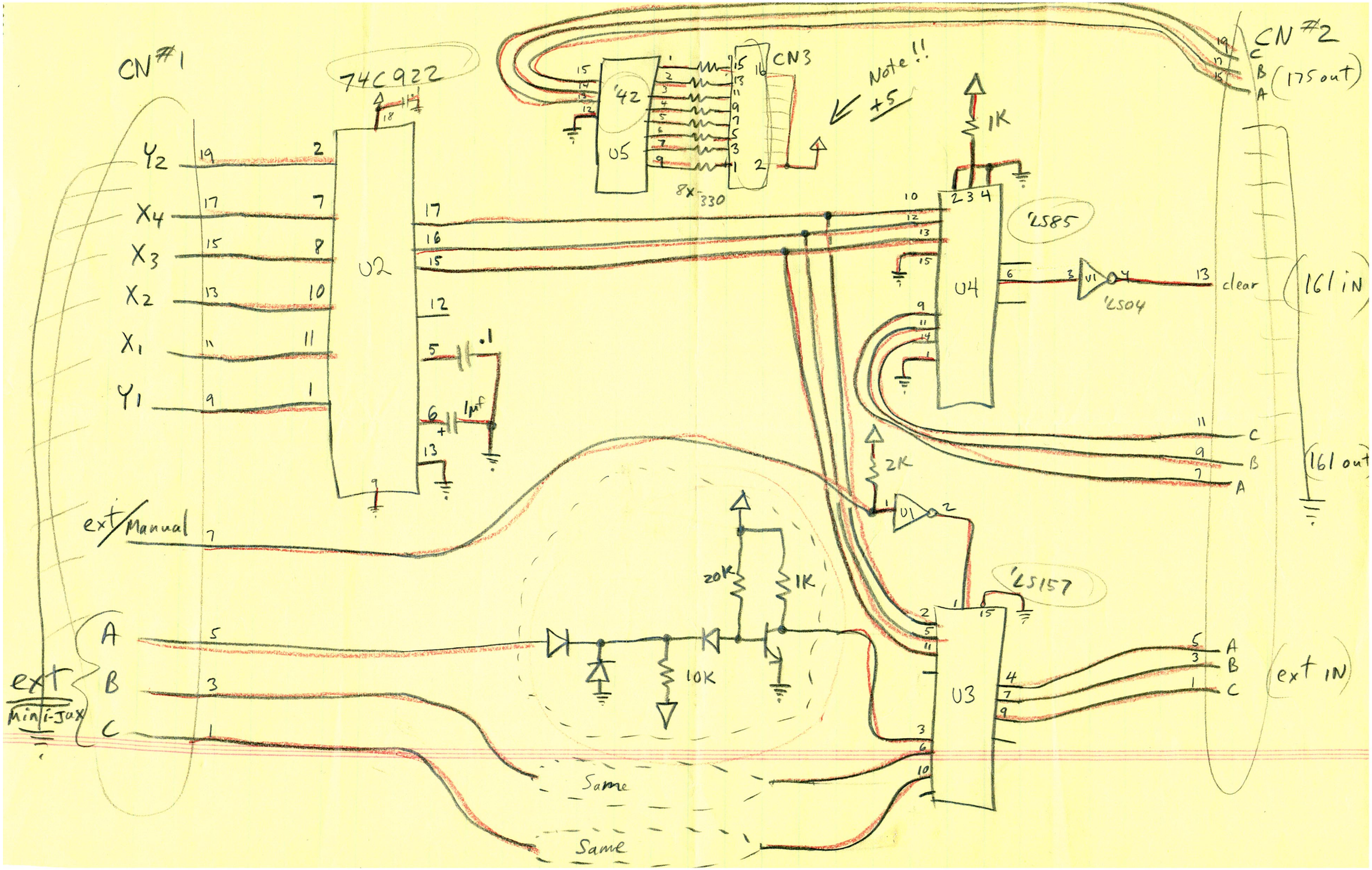
~~2 SYNC OUT?~~

~~3 FFs REFERRED NOT CONSISTENT~~

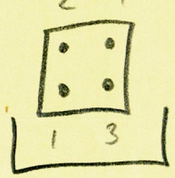
3 157 ? WRONG PINS ?

~~#~~4 CK WHERE

CHANGE A5 TO A4


CN#1
74C922
U2
Y2
X4
X3
X2
X1
Y1
.1
1µf
ext/Manual
ext
mini-jax
A
B
C
'42
U5
8x 330
CN3
Note!!
+5
1K
'LS85
U4
'LS04
clear
161 IN
161 out
2K
U1
20K
1K
10K
'LS157
U3
Same
Same
CN#2
(175 out)
(ext IN)

SEQUENCER



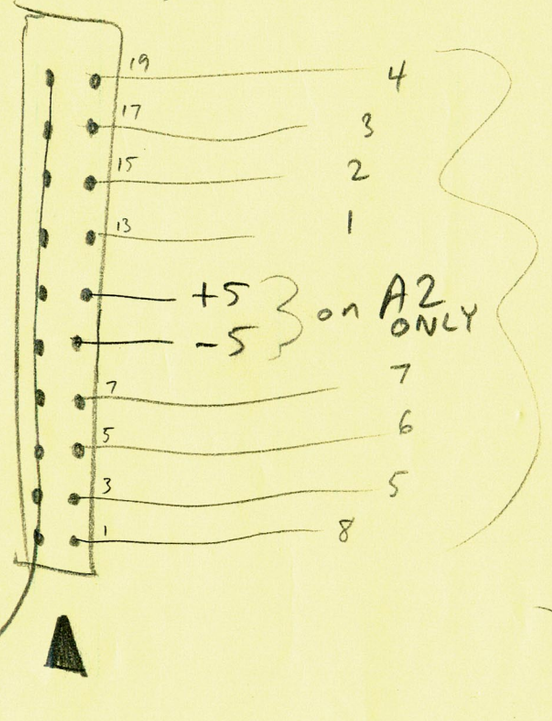
INputs

1 — IN +
2 — ⏚
3 — IN −
4 — ⏚

output

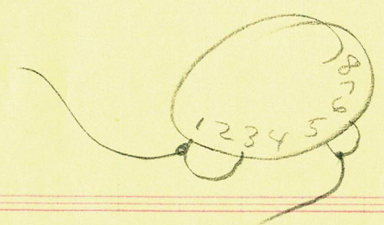
1 — out +
2 — ⏚
3 — (N.C.)
4 — ⏚

A2 & A3
(Don't use A1)

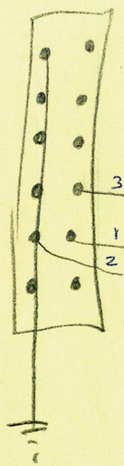


+5 on CW
Turn of Pot

Bias Pot
(OR Mini +)

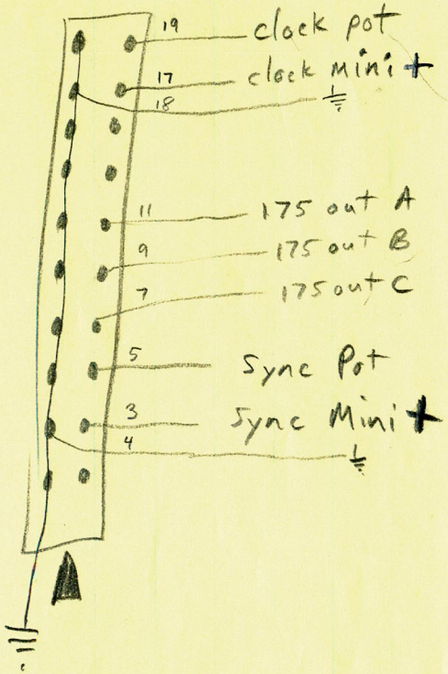


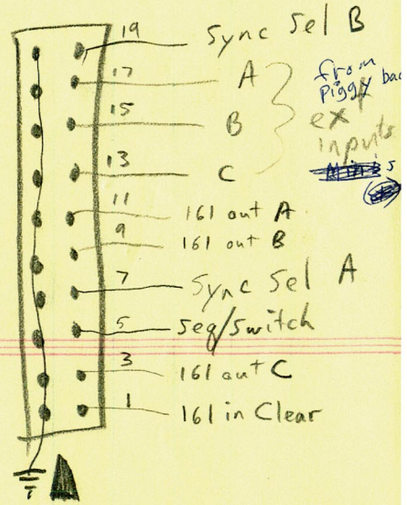
A4



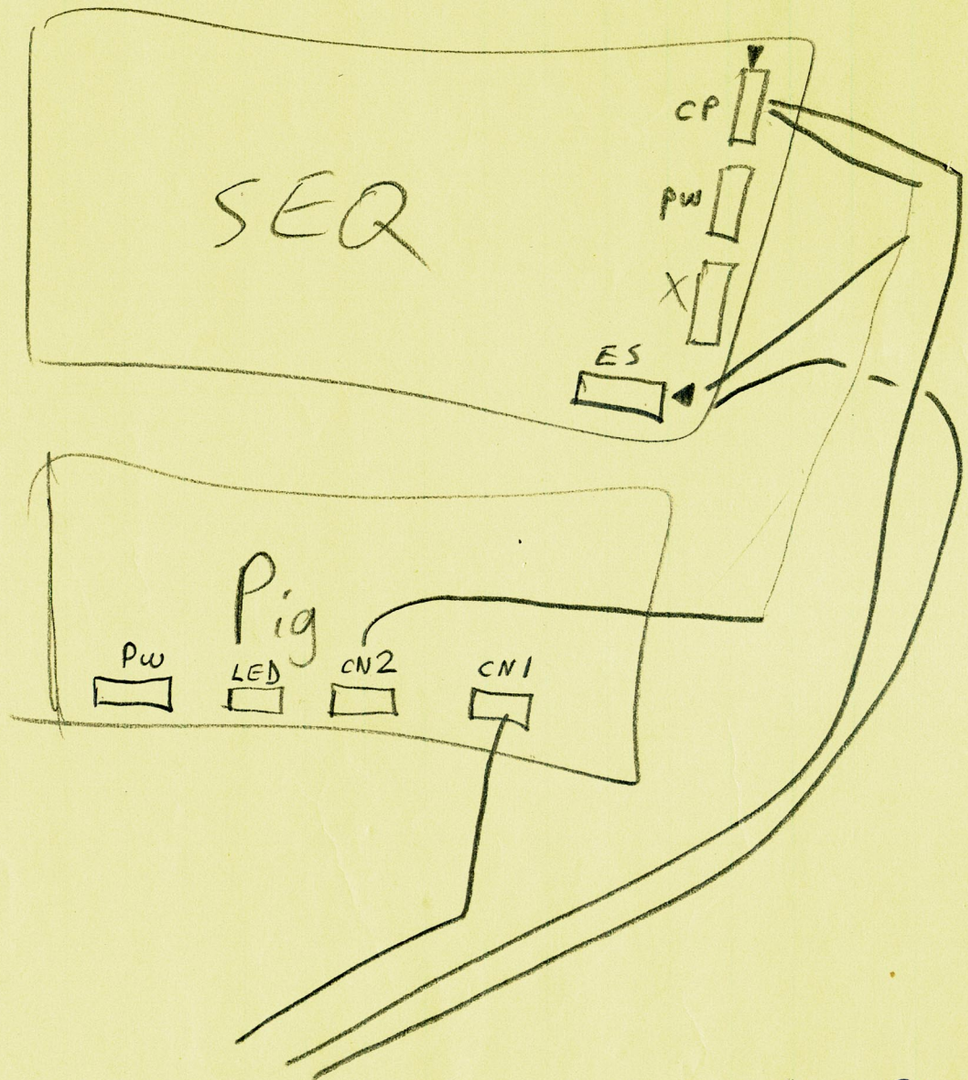
output Ped Pot Mini +

CP





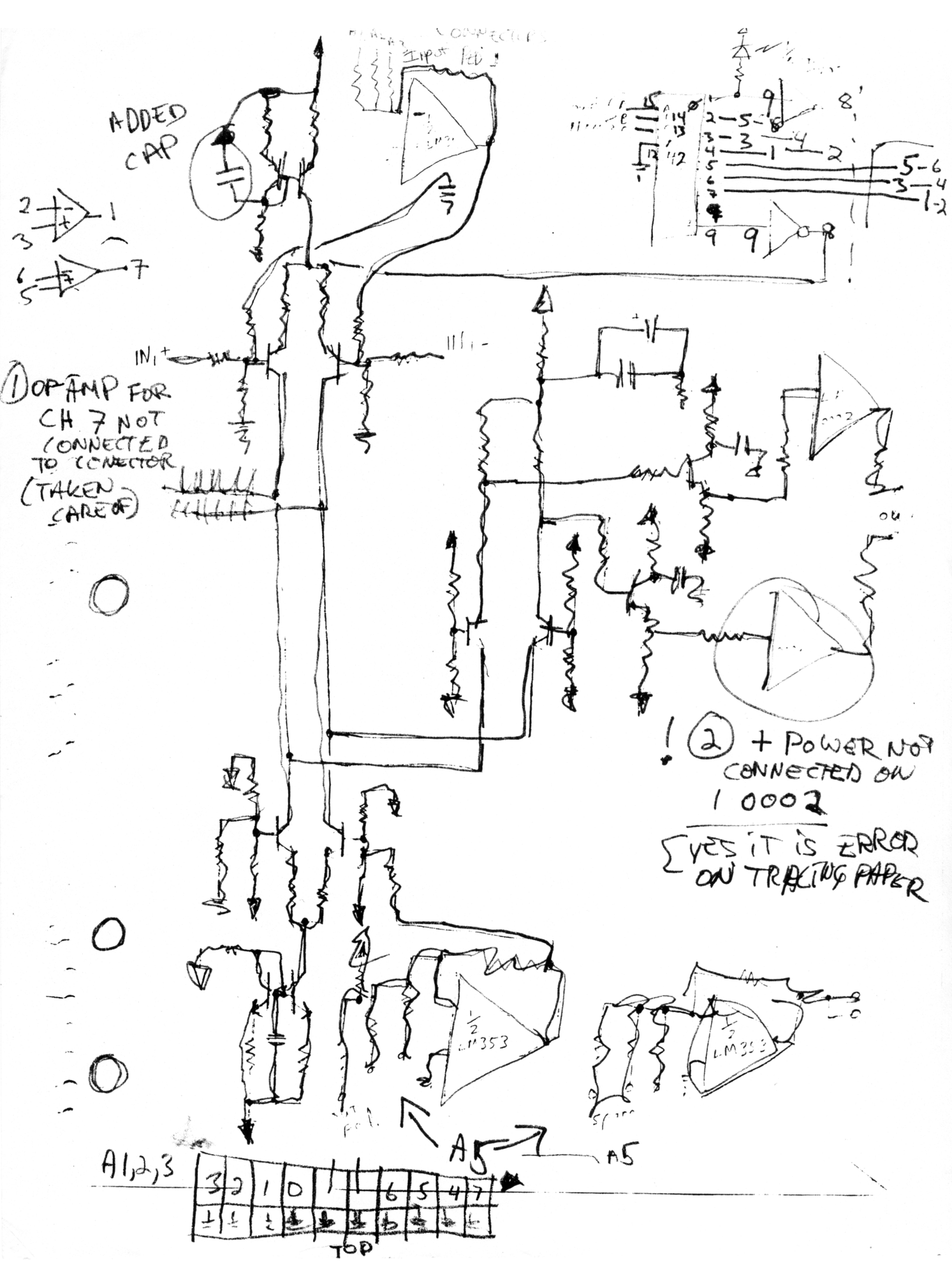
ES



A B C
external inputs

Sync clock

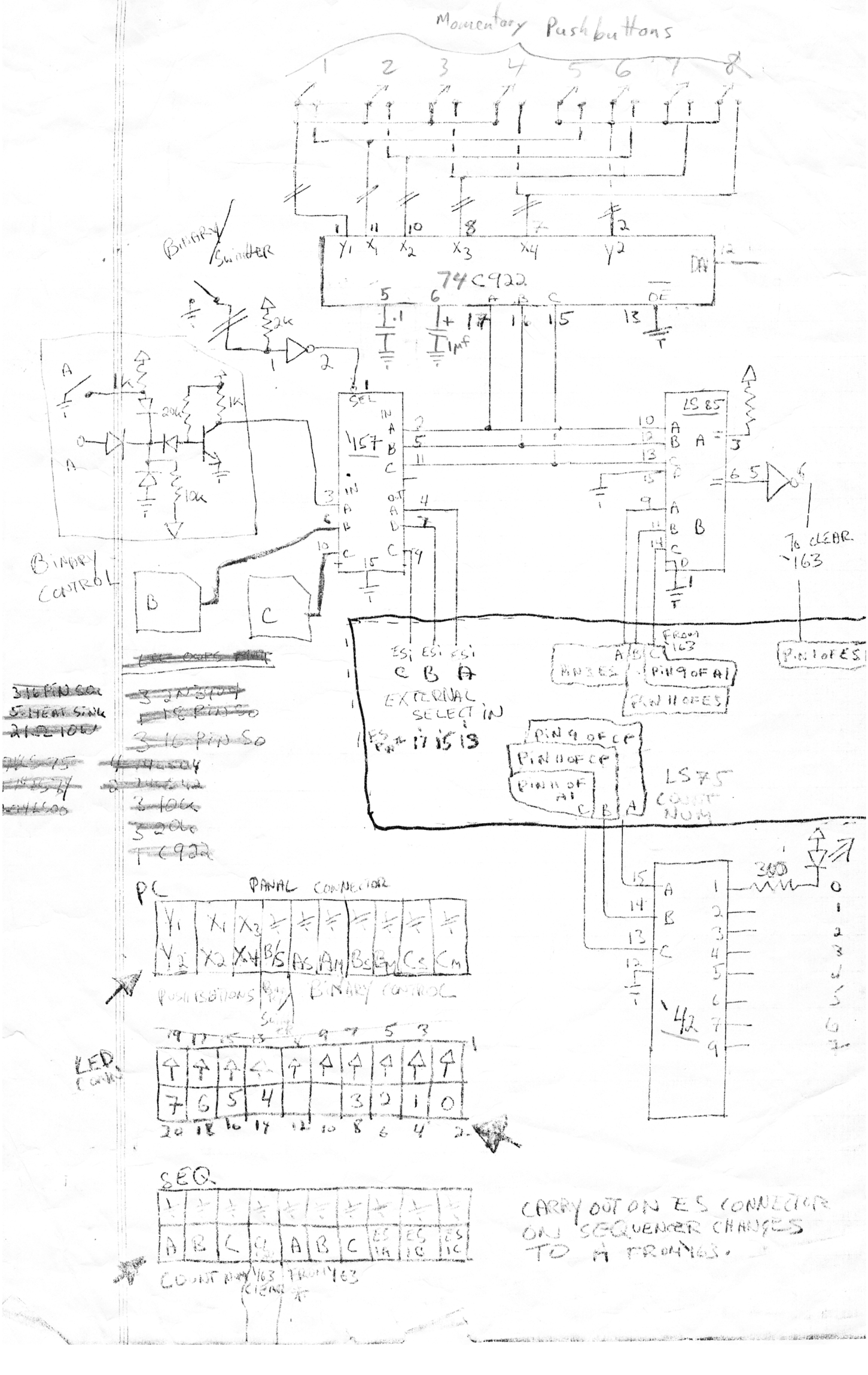
Seq Switch Sync Sel

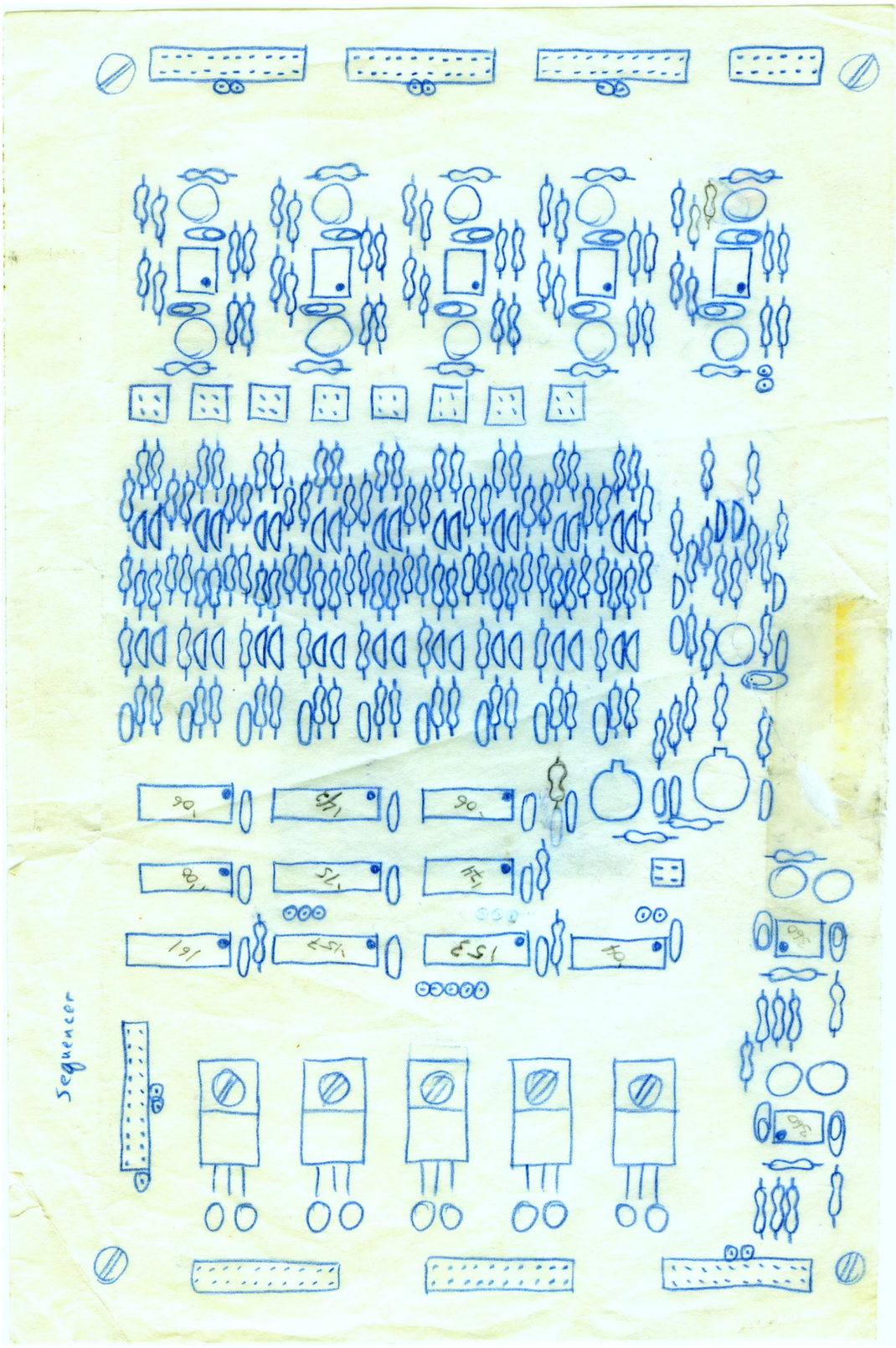


(1) OP AMP FOR CH 7 NOT CONNECTED TO CONNECTOR (TAKEN CARE OF)

(2) + POWER NOT CONNECTED ON 10002

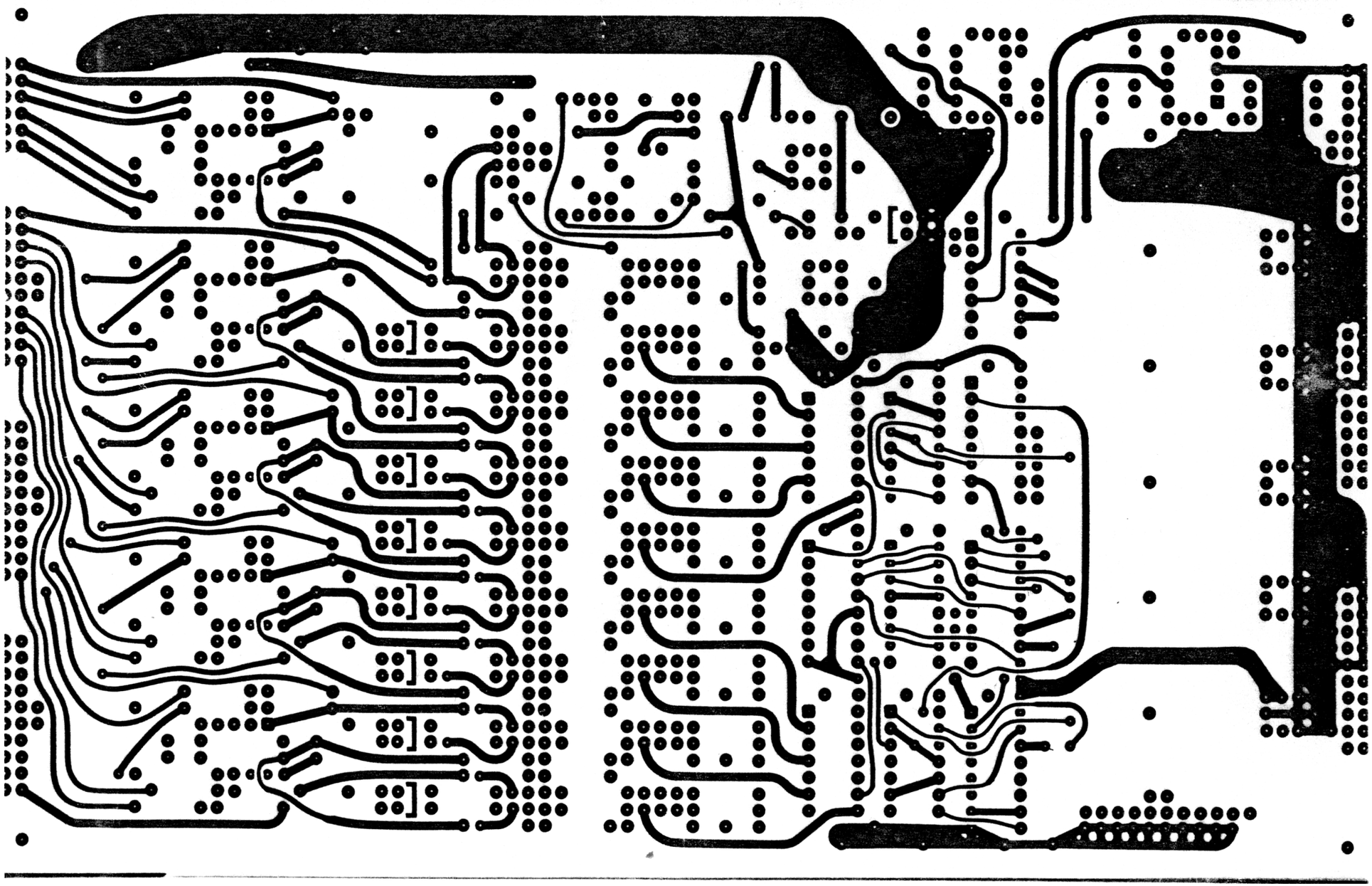
{YES IT IS ERROR ON TRACING PAPER

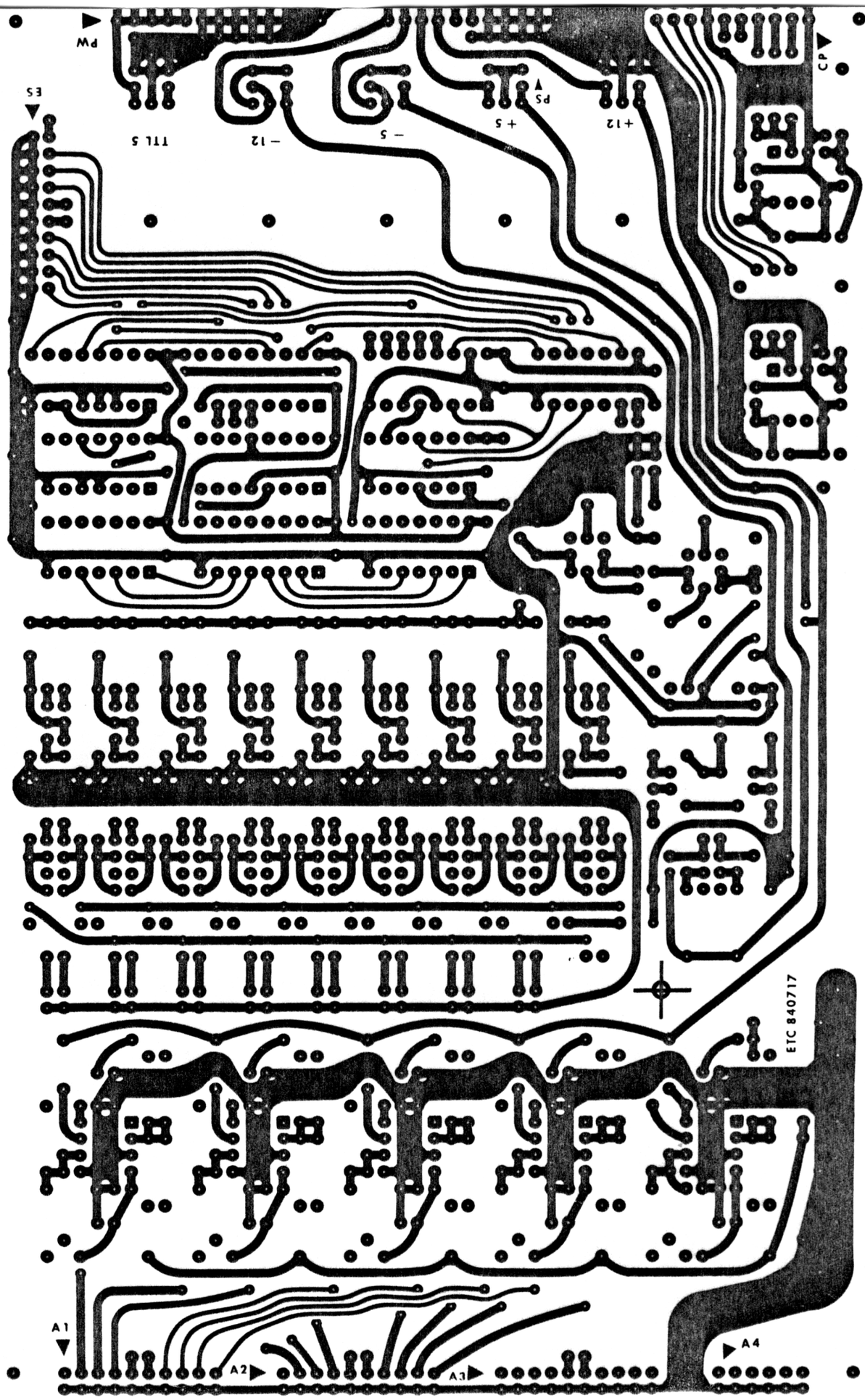

Momentary Pushbuttons
1 2 3 4 5 6 7 8
BINARY SWITCHER
74C922
Y1 X1 X2 X3 X4 Y2
DA
OE
2K
1K
20K
10K
SEL
157
IN A B C
OUT A B C D
LS85
A B A B
To CLEAR 163
BINARY CONTROL
B
C
ES3 ES2 ES1
C B A
EXTERNAL SELECT IN
FROM 163
PIN 9 OF A1
PIN 11 OF ES
PIN 9 OF CP
PIN 11 OF CP
PIN 11 OF A1
LS75 COUNT NUM
300
42
PC PANAL CONNECTOR
Y1 X1 X3 Y2 X2 X4 B/S A5 A1 B5 B1 C5 C1
PUSH BUTTONS
BINARY CONTROL
LED
SEQ.
A B C A B C ES 1A ES 1B ES 1C
COUNT FROM 163
163 CLEAR
FROM 163
CARRY OUT ON ES CONNECTOR ON SEQUENCER CHANGES TO H FROM 163.


Sequencer

Sequencer

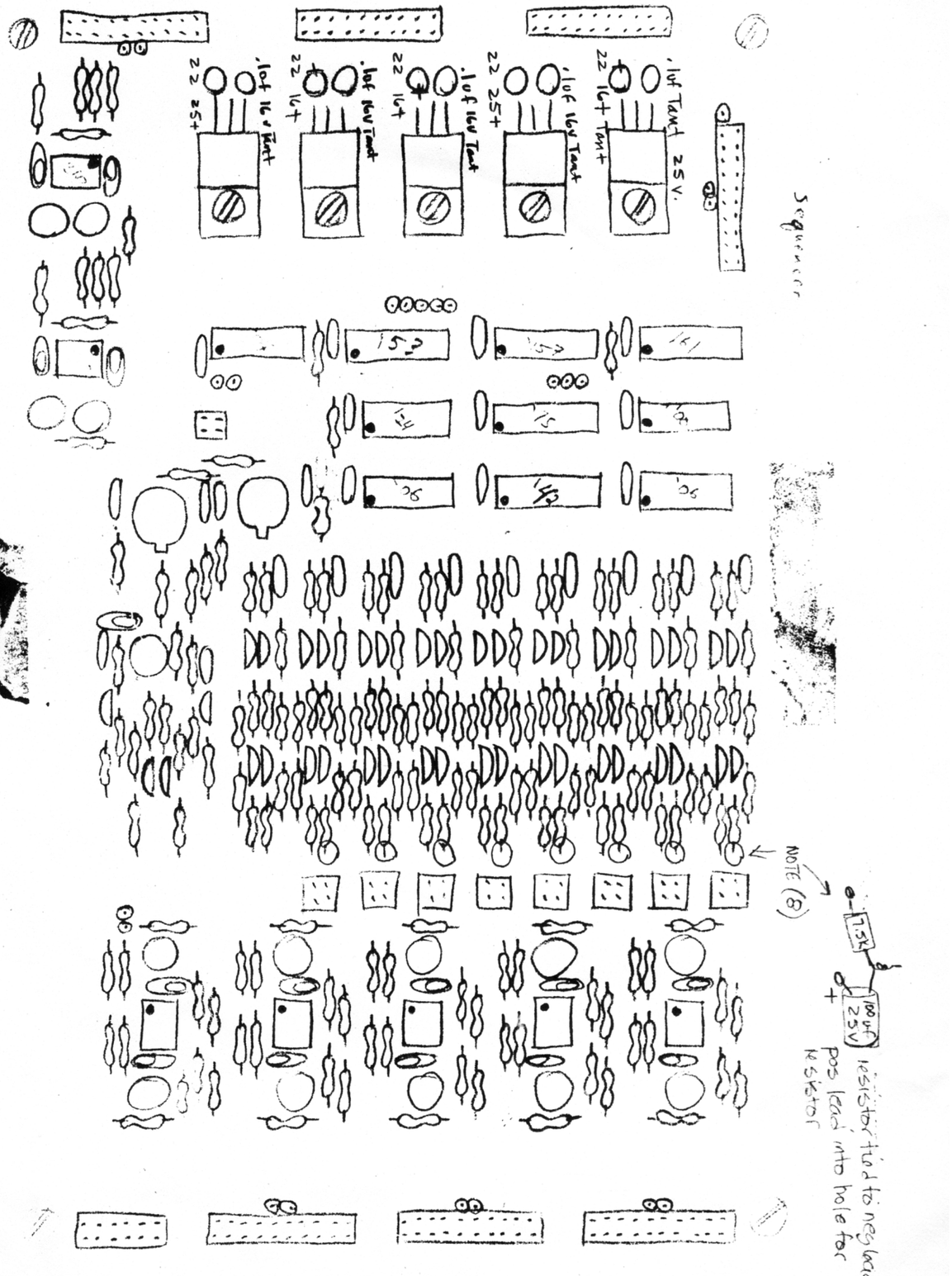
Component side

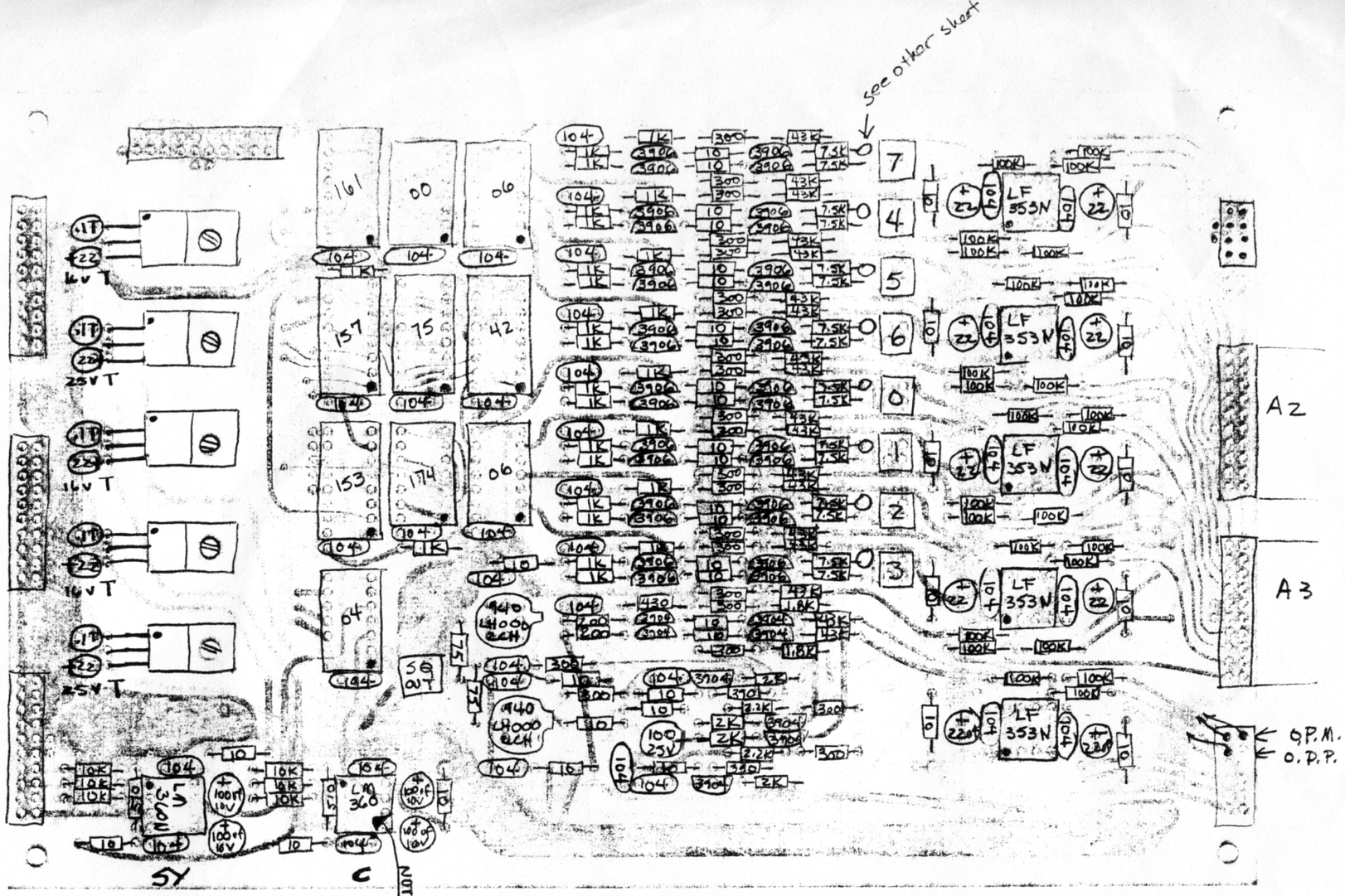




Sequencer Solder side

signals


22 25+
.1uf 16v Tant
22 16+
.1uf Tant 25V.
Sequencer
NOTE (8)
1.5K
100uf 25V
resistor tied to negload
pos lead into hole for resistor



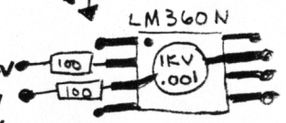
PARTS COUNT

(9) 100 uf 25V cap (see other sheet)
(4) 100 uf 10 V cap.
(10) cap. (+ 22) = 22 uf 25 V
(5) .1uf Tantalum 25V
(2) 22uf Tant 25 V
(3) 22uf Tant 16 V
(40) (104) ceramic cap.

(16) 7.5 K resistors
(2) 510
(38) 10
(6) 10 K
(27) 100 K
(22) 300
(1) 430 resistors
(18) 43 K
(4) 2K
(2) 2.2K
(2) 390
(2) 75
(26) 1 K
(2) 1.8 K

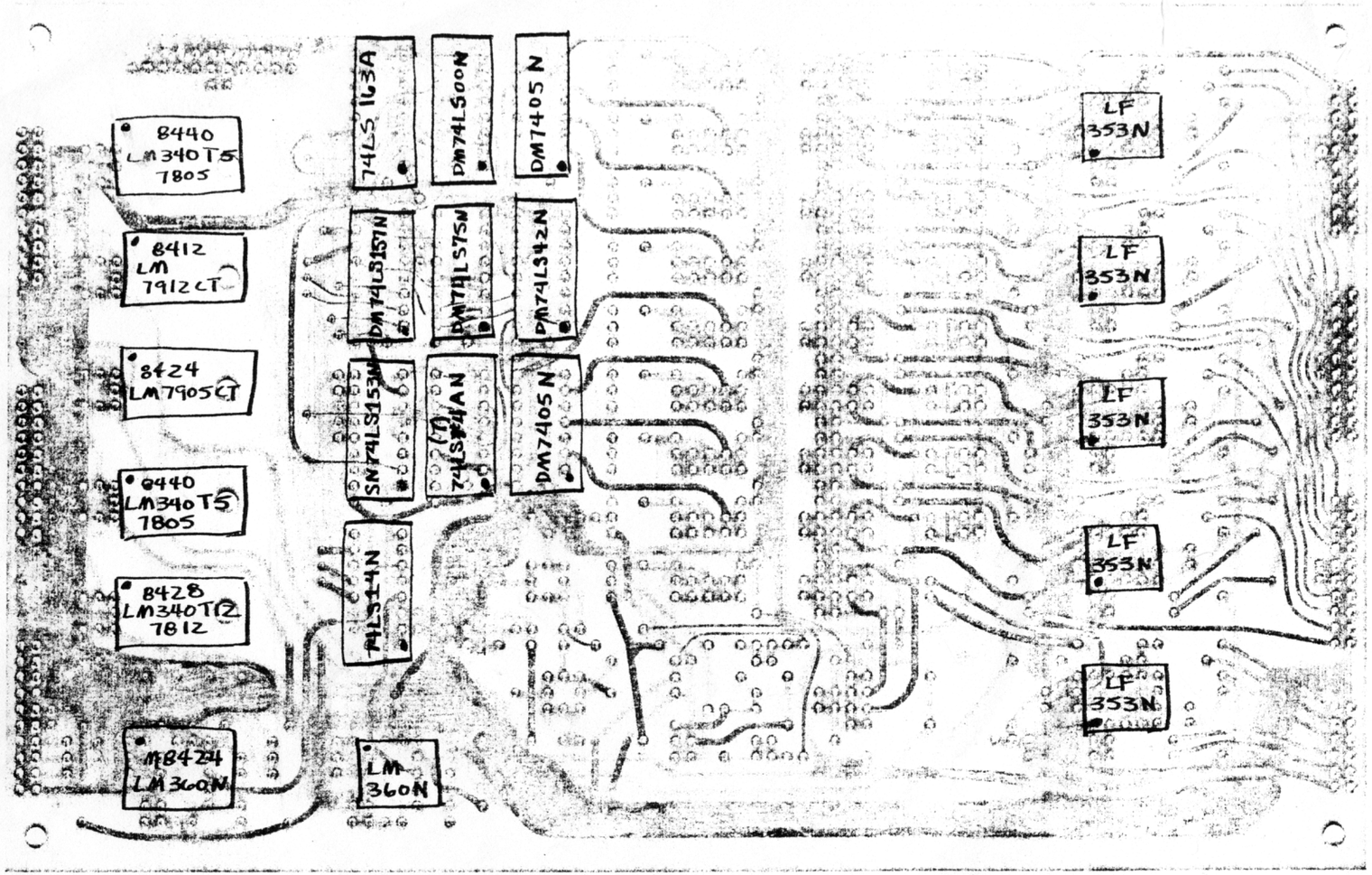
TRANSISTORS (8) 3904
(32) 3906

LM360N



* SQUARE WAVE WORKS FINE BUT OTHER WAVE FORMS DON'T HIT ON THE SLOPE JUST RIGHT

SEQUENCER COMPONENT SIDE

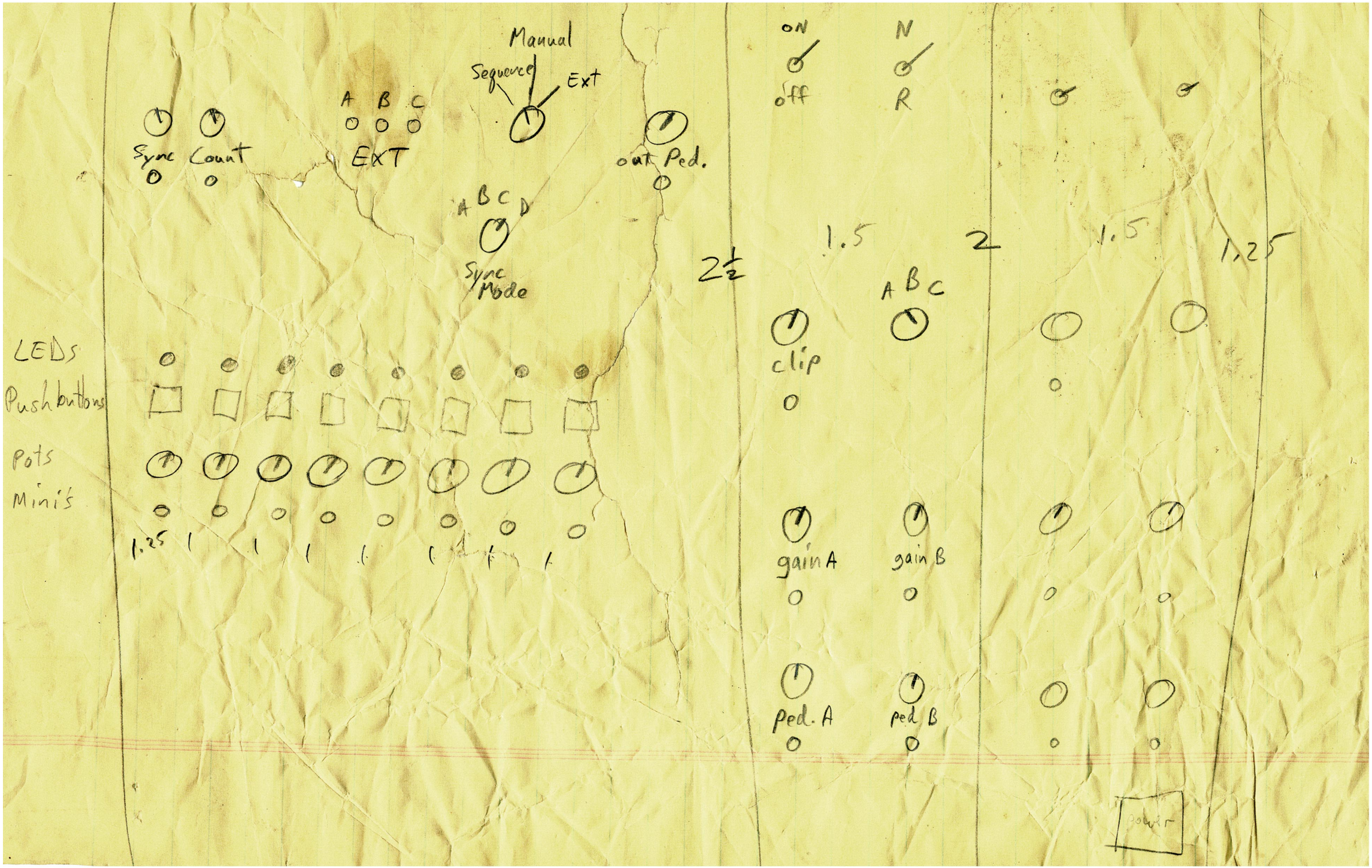


CHIP COUNT

(2) LM340T5
(1) LM7912CT
(1) LM7905CT
(1) LM340T12
(2) LM360N
(5) LF353N

(1) 74LS163A
(1) 74LS74AN
(1) 74LS14N
(1) SN74LS153N
(1) DM74LS00N
(2) DM7405N
(1) DM74LS157N
(1) DM74LS75N
(1) DM74LS42N

SEQUENCER COMPONENT SIDE


Manual
Sequence
Ext
A B C
EXT
Sync
Count
out Ped.
A B C D
Sync Mode
2½
ON
N
off
R
1.5
2
1.5
1.25
A B C
clip
LEDs
Pushbuttons
Pots
Mini's
1.25
gain A
gain B
ped. A
ped B
power